Gulf of Mexico Harmful Algal Bloom Bulletin

8 March 2007

NOAA Ocean Service

NOAA Satellites and Information Service

Last bulletin: March 8, 2007

Conditions Report

A harmful algal bloom has been identified in southern Lee County and south of the Lower and Middle Keys in Monroe County. In southern Lee County, patchy very low impacts are possible today and tomorrow and patchy moderate impacts are possible Saturday and Sunday. While no impacts are expected today through Saturday in the ocean-side Lower Keys region, patchy high impacts are possible on Sunday.

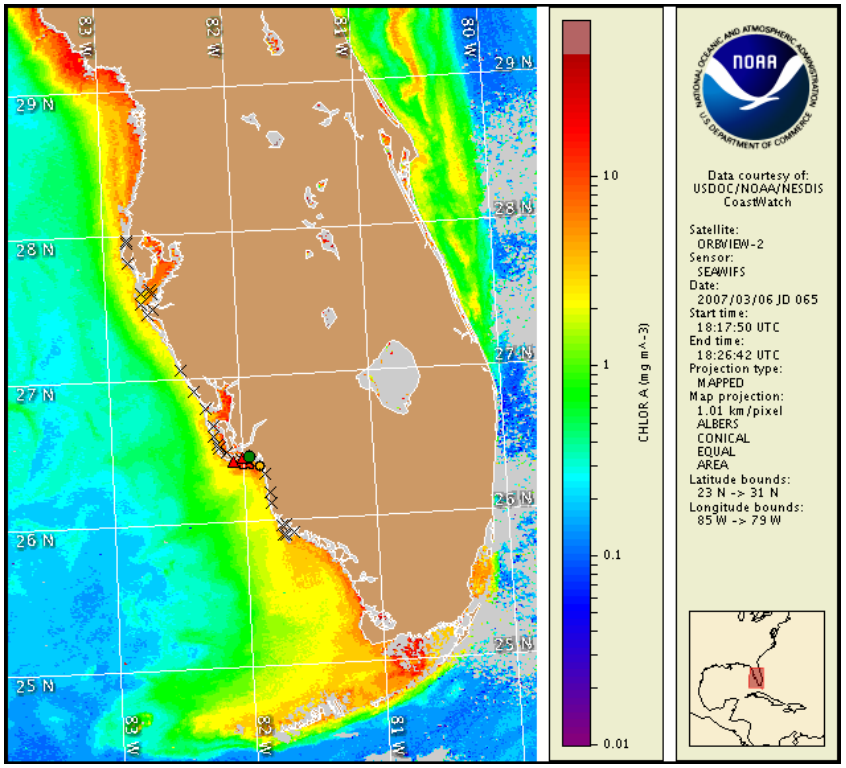
Analysis

*** This bulletin is being issued as an addendum to the previous bulletin #19 sent on March 8th*

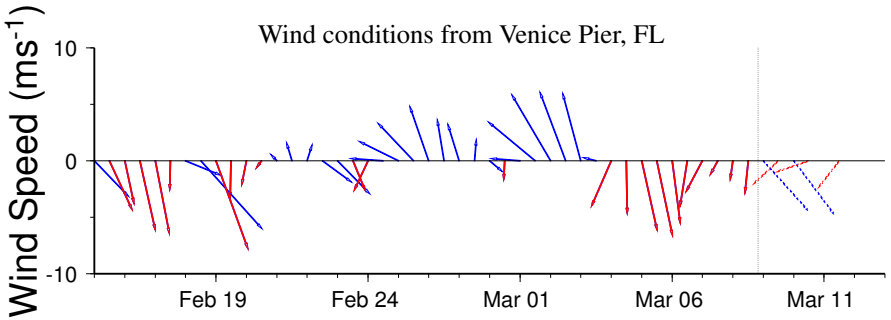
The harmful algal bloom is again present onshore in southern Lee County. Samples indicate medium and very low concentrations of *K. brevis* (FWRI; 3/7) in southern Lee County. As stated in the previous bulletin, satellite imagery from 3/6 indicates a feature with elevated (up to 15 g/L) chlorophyll levels located south of Sanibel Island in Lee County at 26°25N, 82°0W. This feature is likely presently located in the same general region. Continued sampling is recommended.

Offshore winds today and tomorrow will decrease impacts, while onshore winds on Saturday and Sunday will increase the potential for impacts in southern Lee County. Upwelling favorable conditions continue today and tomorrow in the southern Sanibel Island region.

Urizar, Fisher, Bronder

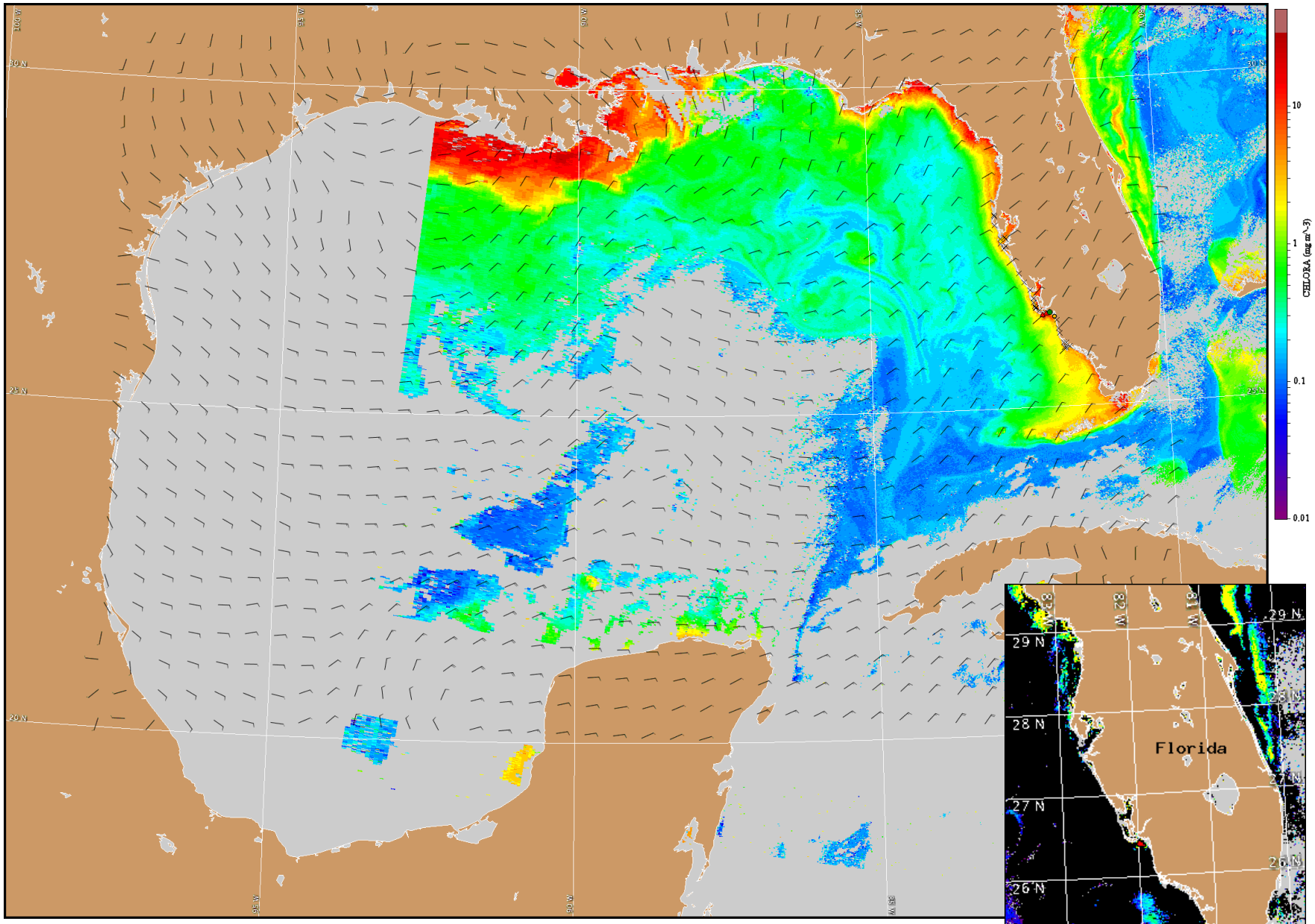


Satellite chlorophyll image with possible HAB areas shown by red polygon(s).Cell concentration sampling data from February 26-March 7 shown as red squares (high), red triangles (medium), red diamonds (low b), red circles (low a), orange circles (very low b), yellow circles (very low a), green circles (present), and black "X" (not present). For a list of cell count data providers and a key to the cell concentration categories, please see the the HABFS bulletin guide: http://www.csc.noaa/gov/crs/habf/habfs_bulletin_guide.pdf

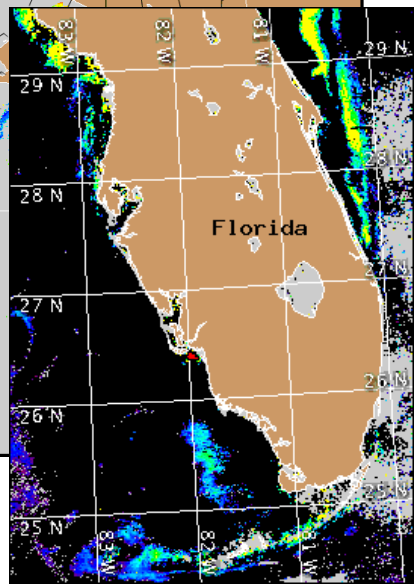


Wind speed and direction are averaged over 12 hours from buoy measurements. Length of line indicates speed; angle indicates direction. Red indicates that the wind direction favors upwelling near the coast. Values to the left of the dotted vertical line are measured values; values to the right are forecasts.

SW Florida: Winds will be north (10 kts, 5 m/s) today, east becoming northwest (10 kts, 5 m/s) tomorrow, variable (10 kts, 5 m/s) Saturday, east becoming onshore (10 kts, 5 m/s) Sunday.



Satellite chlorophyll image and forecast winds for March 9, 2007 12Z with cell concentration sampling data from February 26-March 7 shown as red squares (high), red triangles (medium), red diamonds (low b), red circles (low a), orange circles (very low b), yellow circles (very low a), green circles (present), and black "X" (not present). For a list of cell count data providers and a key to the cell concentration categories, please see the the HABFS bulletin guide: http://www.csc.noaa/gov/crs/habf/habfs_bulletin_guide.pdf



Verified HAB areas shown in red. Other bloom areas shown in yellow (see p. 1 analysis for interpretation).